SEQUENCE LISTING

<110> Rapoport, Basil

<120> Disease Associated Human Autoantibodies Specific For Human Thyroid Peroxidase.

<130> 08/482,402

<140> 08/482,402
<141> 1995-06-07

<150> PCT/US92/06283
<151> 1992-07-30

<150> 07/750,579
<151> 1991-08-28

<150> 07/738,040
<151> 1991-07-30

<150> 07/559,955
<151> 1990-07-31

<150> 07/472,070
<151> 1990-01-30

<150> 07/388,044
<151> 1989-07-31

<150> 08/196,082
<151> 1994-03-03

<150> 08/182,117
<151> 1994-01-27

<150> PCT US92/07381
<151> 1992-08-28

<160> 4

<170> PatentIn Ver. 2.1

<210> 1
<211> 104
<212> DNA
<213> human

<220>
<223> See Brief Description of the Drawings fig 6 of
Application for detail

<400> 1
aggctccctc gggtgacttg gatctccatg tcgctggctg ctctgctgat cgaggctccc
60
tcgggtgact tgaattccca tgtagctggc tgctctgctg atcg
104

<210> 2
<211> 3072
<212> DNA
<213> human

<220>
<223> See Brief Description of the Drawing figure 7 of
application for detail

<400> 2
gaggcaattg aggcgcccat ttcagaagag ttacagccgt gaaaattact cagcagtgca
60
gttggctgag aagaggaaaa aagaatgaga gcgctggctg tgctgtctgt cacgctggtt
120
atggcctgca cagaagcctt cttccccttc atctcgagag ggaaagaact cctttgggga
180
aagcctgagg agtctcgtgt ctctagcgtc ttggaggaaa gcaagcgcct ggtggacacc
240
gccatgtacg ccacgatgca gagaaacctc aagaaaagag gaatcctttc tggagctcag
300
cttctgtctt tttccaaact tcctgagcca acaagcggag tgattgcccg agcagcagag
360
ataatggaaa catcaataca agcgatgaaa agaaaagtca acctgaaaac tcaacaatca
420
cagcatccaa cggatgcttt atcagaagat ctgctgagca tcattgcaaa catgtctgga
480
tgtctccctt acatgctgcc cccaaaatgc ccaaacactt gcctggcgaa caaatacagg
540
cccatcacag gagcttgcaa caacagagac caccccagat ggggcgcctc caacacggcc
600
ctggcacgat ggctccctcc agtctatgag gacggcttca gtcagccccg aggctggaac
660
cccggcttct tgtacaacgg gttcccactg cccccggtcc gggaggtgac aagacatgtc
720
attcaagttt caaatgaggt tgtcacagat gatgaccgct attctgacct cctgatggca
780

```
tggggacaat acatcgacca cgacatcgcg ttcacaccac agagcaccag caaagctgcc
840
ttcggggggag ggtctgactg ccagatgact tgtgagaacc aaaacccatg ttttcccata
900
caactcccgg aggaggcccg gccggccgcg ggcaccgcct gtctgccctt ctaccgctct
960
tcggccgcct gcggcaccgg ggaccaaggc gcgctctttg ggaacctgtc cacggccaac
1020
ccgaggcagc agatgaacgg gttgacctcg ttcctggacg cgtccaccgt gtatggcagc
1080
tccccggccc tagagaggca gctgcggaac tggaccagtg ccgaagggct gctccgcgtc
1140
cacggccgcc tccgggactc cggccgcgcc tacctgccct tcgtgccgcc acgcgcgcct
1200
gcggcctgtg cgcccgagcc cggcaacccc ggagagaccc gcgggccctg cttcctggcc
1260
ggagacggcc gcgccagcga ggtcccctcc ctgacggcac tgcacacgct gtggctgcgc
1320
gagcacaacc gcctggccgc ggcgctcaag gccctcaatg cgcactggag cgcggacgcc
1380
gtgtaccagg aggcgcgcaa ggtcgtgggc gctctgcacc agatcatcac cctgagggat
1440
tacatcccca ggatcctggg acccgaggcc ttccagcagt acgtgggtcc ctatgaaggc
1500
tatgactcca ccgccaaccc cactgtgtcc aacgtgttct ccacagccgc cttccgcttc
1560
ggccatgcca cgatccaccc gctggtgagg aggctggacg ccagcttcca ggagcacccc
1620
gacctgcccg ggctgtggct gcaccaggct ttcttcagcc catggacatt actccgtgga
1680
ggtggtttgg acccactaat acgaggcctt cttgcaagac cagccaaact gcaggtgcag
1740
gatcagctga tgaacgagga gctgacggaa aggctctttg tgctgtccaa ttccagcacc
1800
ttggatctgg cgtccatcaa cctgcagagg ggccgggacc acgggctgcc aggttacaat
1860
gagtggaggg agttctgcgg cctgcctcgc ctggagaccc ccgctgacct gagcacagcc
1920
atcgccagca ggagcgtggc cgacaagatc ctggacttgt acaagcatcc tgacaacatc
1980
gatgtctggc tgggaggctt agctgaaaac ttcctcccca gggctcggac agggcccctg
2040
tttgcctgtc tcattgggaa gcagatgaag gctctgcggg acggtgactg gttttggtgg
2100
gagaacagcc acgtcttcac ggatgcacag aggcgtgagc tggagaagca ctccctgtct
2160
cgggtcatct gtgacaacac tggcctcacc agggtgccca tggatgcctt ccaagtcggc
2220
```

```
aaattccccg aagactttga gtcttgtgac agcatcactg gcatgaacct ggaggcctgg
2280
agggaaacct ttcctcaaga cgacaggtgt ggcttcccag agagcgtgga gaatggggac
2340
tttgtgcact gtgaggagtc tgggaggcgc gtgctggtgt attcctgccg gcacgggtat
2400
gagctccaag gccgggagca gctcacttgc acccaggaag gatgggattt ccagcctccc
2460
ctctgcaaag atgtgaacga gtgtgcagac ggtgcccacc cccctgcca cgcctgtgcg
2520
aggtgcagaa acaccaaagg cggcttccag tgtctctgcg cggacccta cgagttagga
2580
gacgatggga gaacctgcgt agactccggg aggctccctc gggtgacttg gatctccatg
2640
tcgctggctg ctctgctgat cggaggcttc gcaggtctca cctcgacggt gatttgcagg
2700
tggacacgca ctggcactaa atccacactg cccatctcgg agacaggcgg aggaactccc
2760
gagctgagat gcggaaagca ccaggccgta gggacctcac cgcagcgggc cgcagctcag
2820
gactcggagc aggagagtgc tgggatggaa ggccgggata ctcacaggct gccgagagcc
2880
ctctgagggc aaagtggcag gacactgcag aacagcttca tgttcccaaa atcaccgtac
2940
gactcttttc caaacacagg caaatcggaa atcagcagga cgactgtttt cccaacacgg
3000
gtaaatctag taccatgtcg tagttactct caggcatgga tgaataaatg ttatagctgc
3060
aaaaaaaaaa aa
3072
```

```
<210> 3
<211> 45
<212> DNA
<213> human

<220>
<223> See Brief Description of the Drawings figure 18 of
      the Application  for details

<400> 3
aacccatgtt ttcccataca actcccggag gaggcccggc cggcc
45


<210> 4
<211> 29
```

<212> DNA
<213> human

<220>
<223> See Brief Description of the Drawing fig 19 of the
      Applicaion for details

<400> 4
gcaaattccc cgaagacttt gagtcttgt
29